

Global Economics & Strategy Day

Hilton Hotel, Frankfurt Wednesday September 7th, 2016

Neil McLeish, Andrew Sheets, Hans Redeker, and Anton Heese are fixed income analysts and are not opining on equity securities. Elga Bartsch, Daniele Antonucci, Ellen Zentner, and Robert Feldman are economists and are not opining on any securities. Their views are clearly delineated. All data as at September 5th, 2016

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Agenda

Welcome

Oliver Behrens - CEO, Morgan Stanley Bank AG

Global Macro Outlook: "Clouded by Political Uncertainty"

Elga Bartsch (Chair) - Global Co-head of Economics & Chief European Economist

Ellen Zentner - US Chief Economist (VC)

Daniele Antonucci - Senior European Economist

Robert Alan Feldman - Chief Economist Japan (VC)

Neil McLeish - Global Director of Macro Research

Cross Asset Strategy: "Dealing with Disappointment"

Andrew Sheets (Chair) - Chief Cross Asset Strategist

Hans Redeker - Head of Global FX Strategy

Adam Longson - Head of Energy Commodity Strategy

Jonathan Garner - Chief Asia & Emerging Market Equity Strategist

Graham Secker - Head of European & UK Equity Strategy

Anton Heese - Head of European Interest Rate Strategy

Adam Parker - Chief US Equity Strategist (VC)

Global Macro Outlook: "Clouded by Political Uncertainty"

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Clouded by Political Uncertainty

Elga Bartsch

Global Co-Head of Economics and Chief European Economist

Morgan Stanley & Co. International plc

September 7, 2016

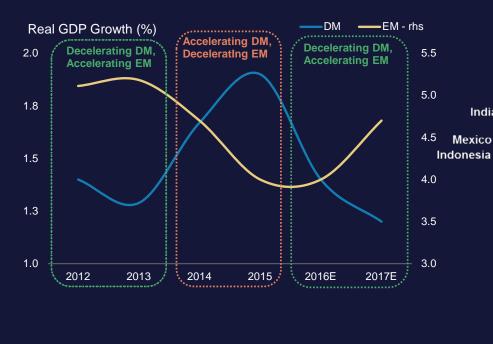
Morgan Stanley Real GDP Forecasts

	2015	20	16e	201	17e
%Y	MS	MS	Cons.	MS	Cons.
GLOBAL	3.1	2.9	3.1	3.2	3.6
G10	1.9	1.4	1.6	1.2	1.8
US	2.4	1.7	1.9	1.5	2.3
EA	1.6	1.3	1.5	1.0	1.4
Japan	0.5	0.2	0.5	0.8	0.8
UK	2.3	1.2	1.6	0.5	0.9
EM	4.0	4.0	4.2	4.7	4.8
China	6.9	6.4	6.5	6.2	6.3
India	7.2	7.7	7.5	7.8	7.7
Brazil	-3.8	-3.6	-3.5	0.9	1.0
Russia	-3.7	-0.6	-0.8	1.4	1.3
MW Global*	2.5	2.3	2.5	2.5	2.9

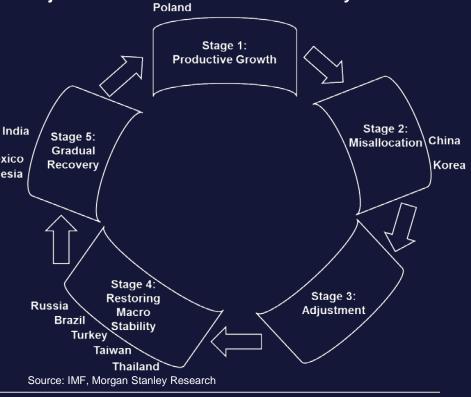
Note: The above aggregates are PPP-weighted. MW Global* is weighted by long-term market exchange rates and is given here for comparison. Cons = consensus Source: Morgan Stanley Research

EM to Lead a Modest Recovery

EM to Gain Momentum While DM Loses Steam



Adjustment in EM ex. China Starts to Pay Off



Source: Haver Analytics, Morgan Stanley Research; E = Morgan Stanley Research estimates

DM Trapped by Low Productivity

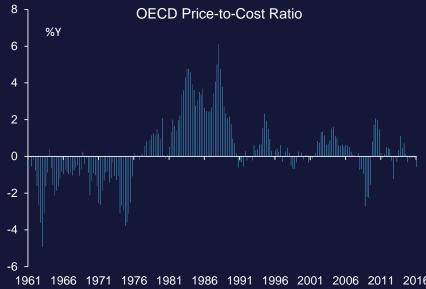


Low Productivity Limits Income Growth, Pressures Profit Margins

Consumer spending slowing at the start of summer



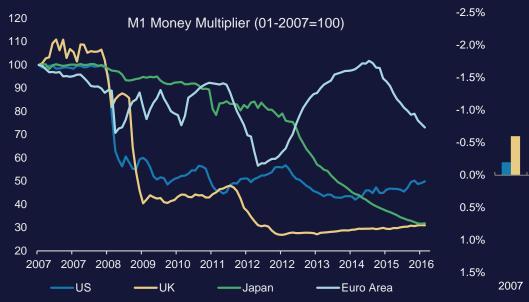
DM Price cost ratio falling most since late 2012 now

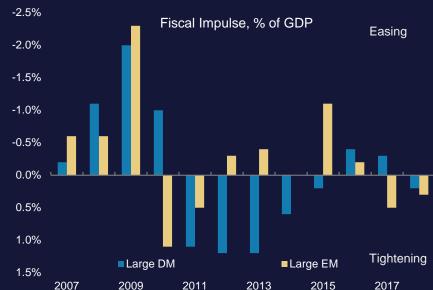


Source: National data, OECD, Morgan Stanley Research

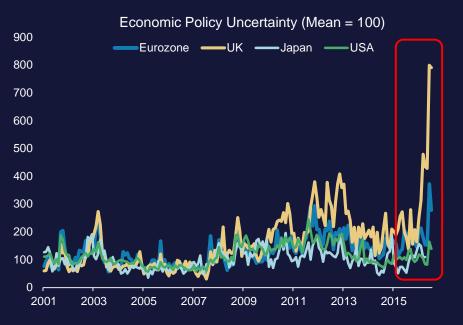
Source: OECD, Morgan Stanley Research

As Monetary Policy Impact Wanes, Fiscal Policy Becomes Crucial





Policy Uncertainty Surges, Could Rise in the US



Political Events Calendar				
2016	Country	Event		
4/5 Sep	G20	G20 Meeting, Hangzhou, China		
Sep*	Spain	Confidence Vote in Catalonia Government		
02-Oct	Hungary	Referendum on Migration Quotas		
Nov*	Italy	Referendum on Constitutional Reform		
08-Nov	US	Presidential Election, Congressional Elections		
2017	Country	Event		
2017 Mar*	Netherlands	General Election		
Mar*	Netherlands	General Election		
Mar* Mar	Netherlands India	General Election Uttar Pradesh State Election		
Mar* Mar 23-Apr	Netherlands India France	General Election Uttar Pradesh State Election Presidential Election (First Round)		
Mar* Mar 23-Apr Sep*	Netherlands India France Germany	General Election Uttar Pradesh State Election Presidential Election (First Round) General election		

Note: Eurozone is the GDP-weighted average of Germany, France, Italy and Spain. Source: www.policyUncertainty.com, Morgan Stanley Research forecasts

Source: Morgan Stanley Research



Ellen Zentner

Chief US Economist

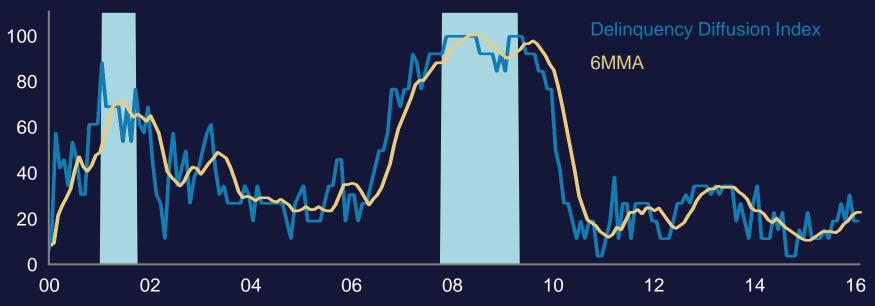
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The US Economy Has Moved into the Late Cycle Phase

But the US consumer looks more mid-cycle as the peak in health for household balance sheets has passed, but remains well within healthy ranges. This will help stretch the business expansion.

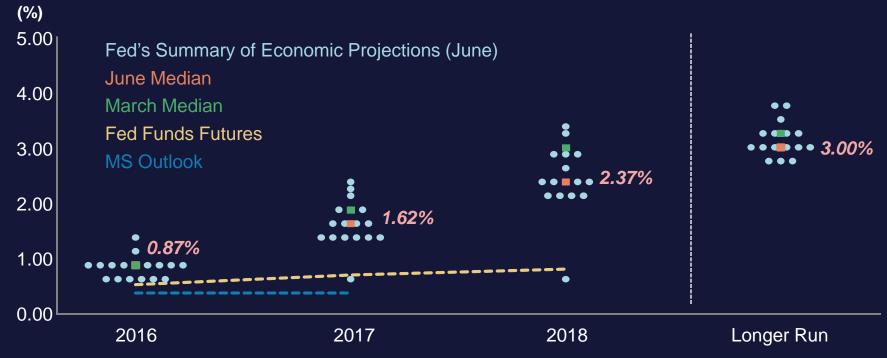
Monthly Delinquency Diffusion Index



Note: Index incorporates changes in the value of delinquent loans across mortgages, automobiles, credit cards, and student loans. Source: American Bankers Association, Morgan Stanley Research

Stark Realities Should Keep the Fed on Hold

New realities mean lower for even longer as policymakers discuss alternative frameworks.

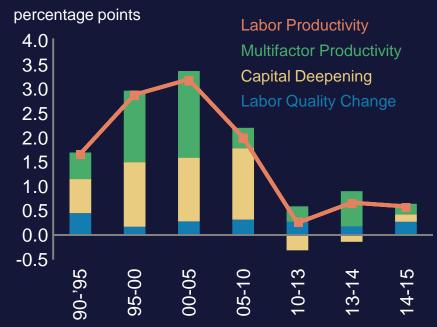


Source: Federal Reserve, Chicago Mercantile Exchange, Morgan Stanley Research

Why Is US Productivity Growth So Low?

The deterioration in labor productivity in recent years has importantly owed to a shallowing out of the capital stock. Multifactor productivity (MFP) has also slowed substantially.





See <u>US Economics: Potential GDP (04 Feb 2016)</u>

Source: Bureau of Labor Statistics, Morgan Stanley Research

Fiscal Policy Needs to Play a More Dominant Role

Increased spending on infrastructure will help, but our base case is that 'policy incrementalism' — a Clinton win with divided government — should temper expectations for meaningful stimulus, particularly outside of recession.

President	Plan	Date	Implemented During Recession?	Quarters Into Recession Implemented:
Roosevelt	New Deal	Mar-33	Yes	14
Eisenhower	Tax Cuts	Sep-54	Yes	4
Kennedy	New Frontier	Mar-61	Yes	3
Carter	Stimulus Act	Jun-77	No	NA
Reagan	Recovery Act	Sep-81	Yes	1
Bush	Tax Cuts	Jun-01	Yes	1
Bush	Tax Cuts	Jun-08	Yes	2
Obama	ARRA	Mar-09	Yes	5

Source: National Bureau of Economic Research, Morgan Stanley Research



The Perils of the EU Periphery

Daniele Antonucci

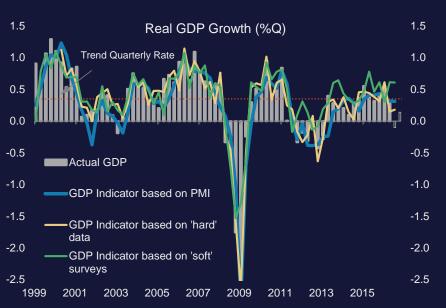
Senior European Economist

Morgan Stanley & Co. International plc

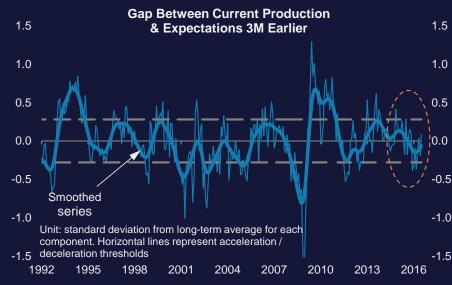
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The Economy Has Performed Better than Expected Post Brexit

Escaping 'recession' in 3Q

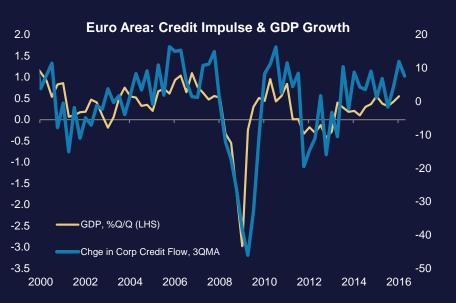


Manufacturers no longer report a negative surprise

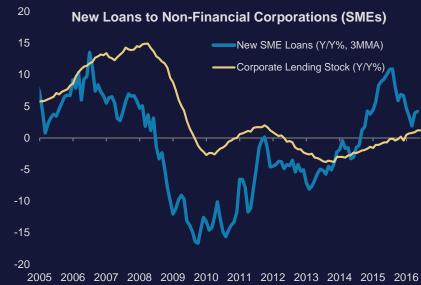


Credit Flows and New SME Loans Have Rebounded

Credit impulse stays solid

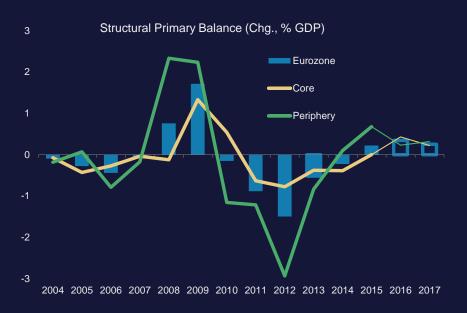


New loans to SMEs seem have turned the trend

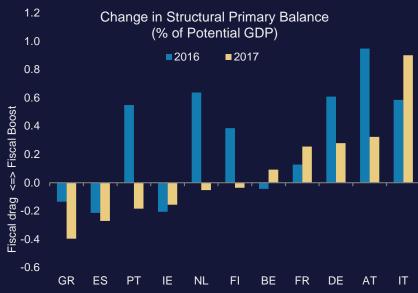


Fiscal Policy Only Moderately Expansionary

Fiscal boost, but very small



Italy to expand fiscal policy the most

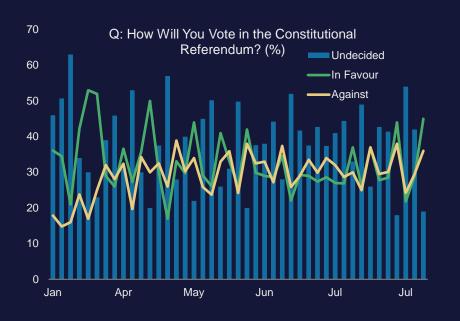


+/- = fiscal expansion/contraction, we assume a fiscal multiplier = 1 Source: EU Commission, Morgan Stanley Research Forecasts (thin lines)

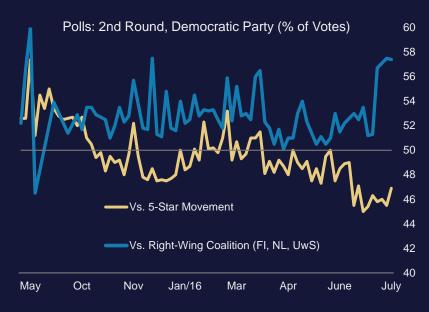
+/- = fiscal expansion/contraction, we assume a fiscal multiplier = 1 Source: Morgan Stanley Research Forecasts

Italy Looks Like a Key Political Test Once Again

Referendum uncertainty



Might protest parties win the next election?





Abenomics: There Is a Tide in the Affairs of Men ...

Robert Alan Feldman, Ph.D.

Chief Economist Japan (Video Conference)

Morgan Stanley MUFG Securities Co., Ltd.

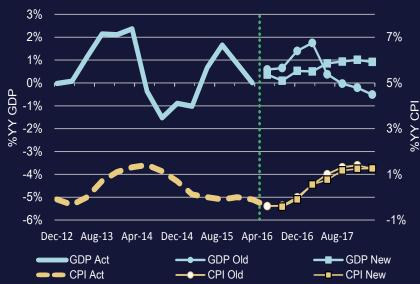
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Japan Economic Outlook

Compensation = (Comp/Hour)*(Hours/Worker)*Workers

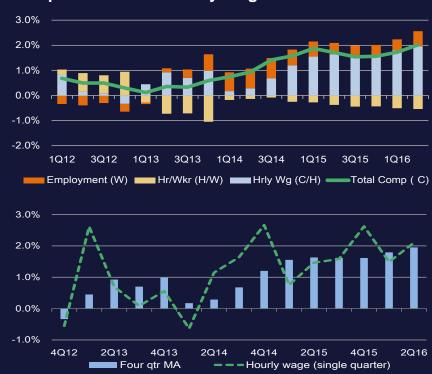
GDP and CPI (Japan Core)

Actual and Forecast



Forecast = Morgan Stanley Research forecast

Compensation and Hourly Wages



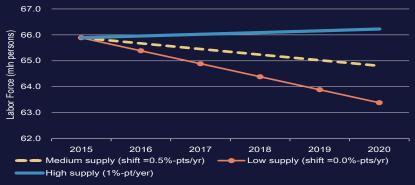
Source: Cabinet Office, MHLW, MIC Statistics Bureau, Morgan Stanley Research calculations

Labor: Demand, Supply, and Unemployment

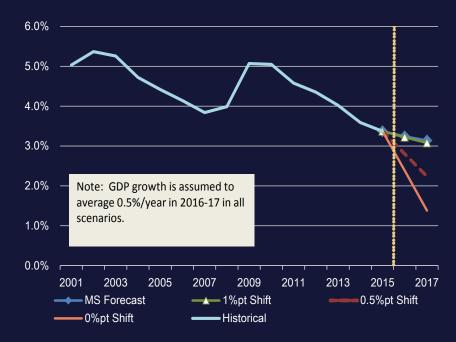
Labor Demand in 2017 - Under Combinations of GDP Growth and Productivity Growth



Labor Supply – under different assumptions on further upward female participation shift



Unemployment Rate Scenarios



Source: Morgan Stanley Research calculations

Fiscal Stimulus: The Package

July 11, 2016 10:39 AM GMT

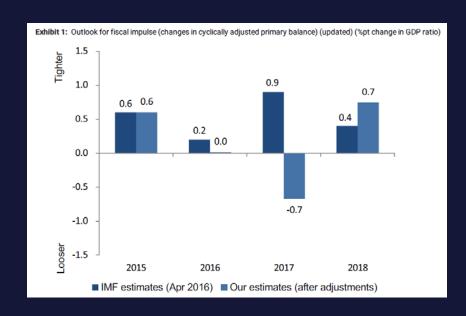
Japan Economics

Update: How Expansionary Will Japan's Near-Term Fiscal Stance Be?

Quick Comment: At a press conference at LDP headquarters on July 11 after the Upper House election, PM Abe again said that the government would implement comprehensive, large-scale measures for the economy to ensure solid support for domestic demand. With regard to scale the PM declined to provide any detail, but with regard to the content he said the key phrase was 'investment for the future,' and touched upon areas including infrastructure investment drawing on fiscal investment and loan programs, and provisions for nursery education and nursing care.

Relatively large supplementary budget: We see an increased possibility of a relatively large supplementary budget. The Nikkei reported as follows on July 11.

"Following the victory in the Upper House election, PM Shinzo Abe's (LDP President) is to instruct to formulate stimulus measures at a Cabinet meeting on July 12. The government will consider a large supplementary budget of over ¥10trn including loan programs, and additional issuance of new JGBs for the first time in four years. Comprehensive measures will be taken to boost the growth capability of the Japanese economy, including structural reforms of working practices. Abenomics, the PM's trademark brand of economic policy, is starting up again".



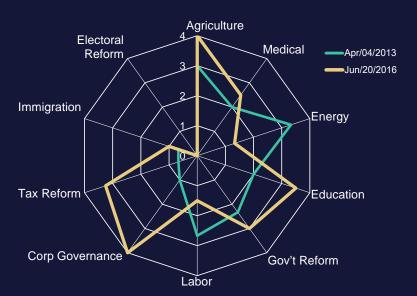


Sources: Morgan Stanley Research

Abenomics: Progress in Some Areas ... But Much More Needed

Third Arrow Summary

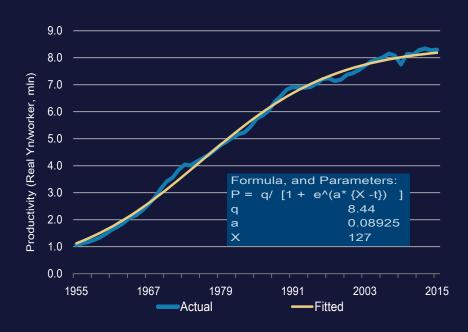
Some areas are progressing well, but others are stalled. The Cabinet will determine whether Third Arrow reforms accelerate.



Grading Scale: A=4, B=3, C=2, D=1, F=0; + and – are worth 1/3 of a point each.

Fighting History

The Long Term Trend of Productivity Deceleration



Source: Cabinet Office, MIC, Morgan Stanley Research calculations



Neil McLeish Global Director of Macro Research

Morgan Stanley & Co. International plc+

September 7, 2016

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Cross Asset Strategy: "Dealing with Disappointment"

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Global Strategy: Dealing with Disappointment

Andrew Sheets

Chief Cross Asset Strategist

Morgan Stanley & Co International plc+

September 7, 2016

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Our Long-Term and Short-Term Forecasts Disagree

		#1: LR Valuations	#2: Cycle	#3: 12m Forecasts
		Risk Premium	Cycle Score	Returns
S	US			3.8%
Equities	Europe			-4.1%
e in	Japan			-5.0%
ш	EM			-2.6%
S	Treasuries			5.7%
Bonds	Bunds			-2.1%
ĭ JGBs			2.5%	
	US IG			0.1%
Ħ	US HY			1.0%
Credit	EUR IG			0.6%
	EUR HY			0.9%

Source: Morgan Stanley Research. Data as of August 8, 2016.

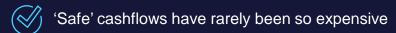
(Almost) Everything Has Worked This Year. That Won't Continue

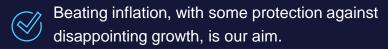


2-3% Return for 4-5% Volatility Is a Good Outcome

Commodities, Credit, Emerging Markets, Duration, and Global Equities have all "worked" YTD. We don't expect that to continue.









Hans Redeker Head of Global FX Strategy

Morgan Stanley & Co. International plc+

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EM Debt Dedicated YTD Flows (US\$ millions)



Source: EPFR, Morgan Stanley Research

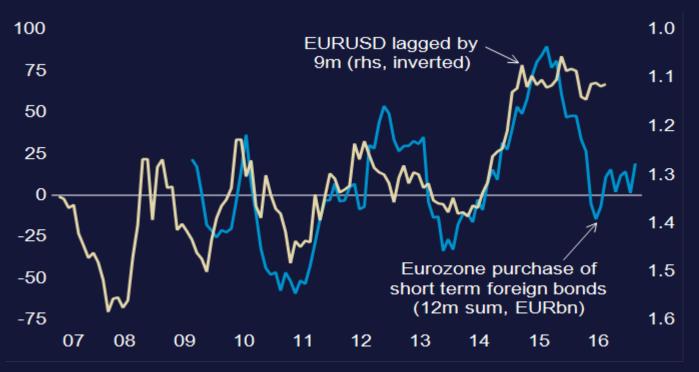
EM – DM Growth Differential Has Started to Re-widen



Real Yield Differential Has Declined



EMU-Based Entities No Longer Buy Short-Term Foreign-Currency Debt



Source: Bloomberg, Macrobond, Morgan Stanley Research



Adam Longson

Chief Energy Commodity Strategist

Morgan Stanley & Co. LLC

September 7, 2016

Oversupply Has Returned as Supply Disruptions Receded

Global oversupply should persist through 1H17 at a minimum

(LHS: Seasonally adjusted oversupply, kb/d; RHS: Crude oil and condensate, mmb/d)



Source: IEA, EIA, JODI, HPDI, Rystad, WoodMackenzie, Morgan Stanley Commodity Research

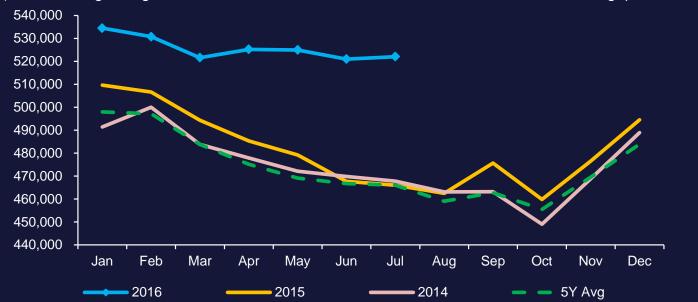
1. Implied oversupply includes an adjustment for seasonal stock changes based on 5Y medians.

It Is Not Just Crude Oil that Is Oversupplied

Refineries Ran Too Hard and Flooded Refined Product Markets

Gasoline inventories in most observable markets are above 5Y highs

(measurable global gasoline inventories – OECD + China, India, Saudi Arabia and Singapore, mmb)



Source: IEA, JODI, EIA. Xinhua, Reuters, Morgan Stanley Commodity Research

Oil Demand from Refineries Trending Well Under Refined Products

Yield shift towards gasoline weighs on margins; keeping crude demand growth below products

(YoY growth in global refinery crude throughput and total refined product demand, mmb/d)



Source: IEA, Morgan Stanley Commodity Research

Key Oil Themes and Outlook

Fundamental data points will be challenged for 6-9 months

- US crude oil inventories should rise through 1Q17, forcing steeper contango
- Product oversupply, refinery maintenance = Tepid refinery demand for crude oil

Oversupply likely to last until mid-2017, keeping oil in a lower range

- Oversupply = \$35-55 trading range. Initial Rebalancing = \$45-65
- At a sustained \$55, US supply should stop declining
- Key drivers within the range: poor fundamentals, positioning, headlines, trade-weighted USD

But there are growing risks to the rebalancing timeline

- Supply looks like it may surprise vs. expectations Iraq, Libya, US
- Crude oil demand has been disappointing

Bloated and Rising US Crude Oil Inventory Will Need Contango

Prompt Time Spreads Track Regional Storage Utilization

(WTI prompt month time spreads, \$/bbl; RHS: Cushing storage utilization – inverted)



Source: Bloomberg, EIA, Morgan Stanley Commodity Research Note: Data as of Aug 26

Higher Volatility + Range-bound Market = Opportunity

WTI Volatility Has Re-rated Higher Since the Oil Downturn

(LHS: WTI implied and 60-day realized volatility; RHS: WTI prompt, \$/bbl)





Asia / EM equities outlook – Prefer EM to Japan

Jonathan Garner

Chief Asia & Emerging Market Equity Strategist

Morgan Stanley Asia Limited+

September 7, 2016

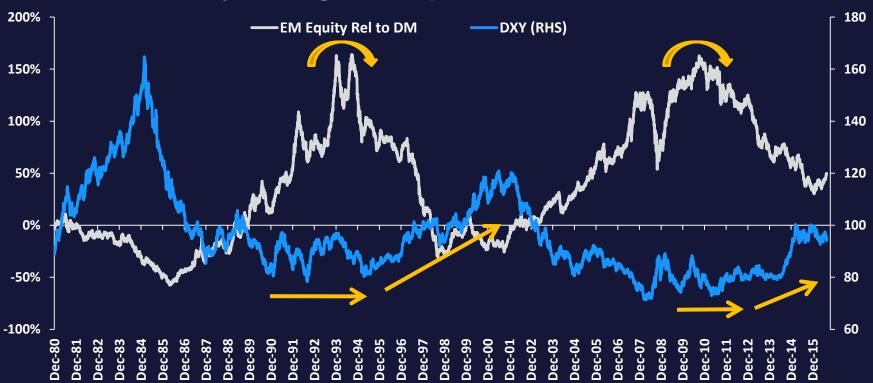
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Pause in USD rally driving EM outperformance relative to DM



*EM equity performance from 1981 to 1987 is based on equity weighted performance of Korea, Malaysia, South Africa and Thailand. Performance since 1988 is based on MSCI EM Index.

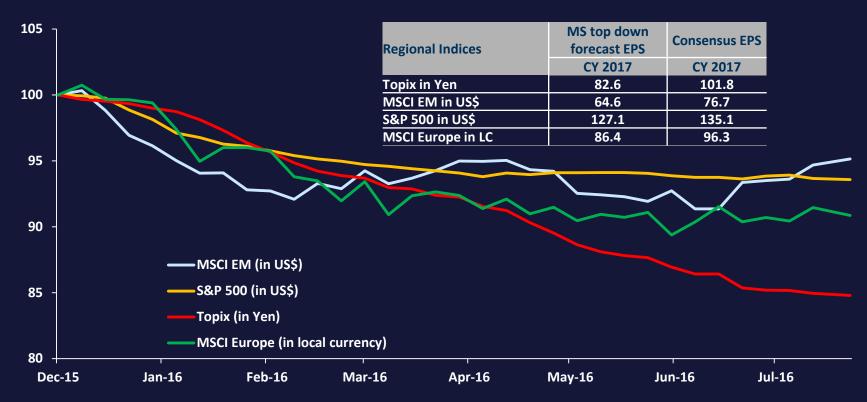
Source: Bloomberg, MSCI, DataStream, Morgan Stanley Research. Data as of August 19, 2016.

A turn to the upside in EM ROE relative to DM and more to come



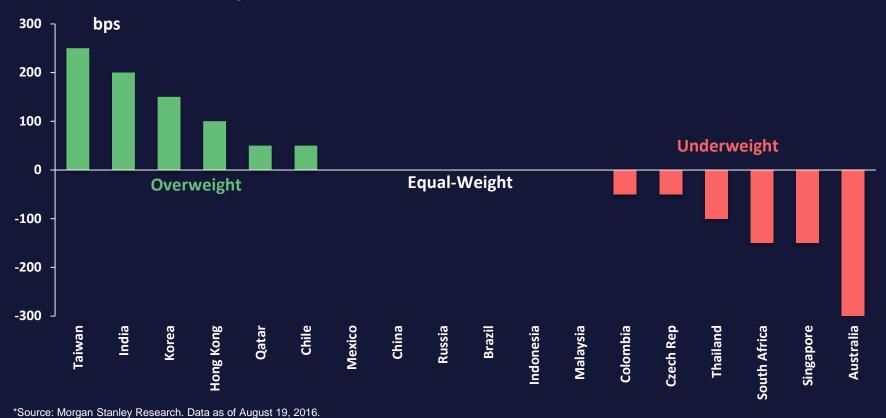
Source: MSCI, FactSet, Morgan Stanley Research. Monthly data as of July, 2016.

2016 Consensus EPS Trend Favours EM over Japan

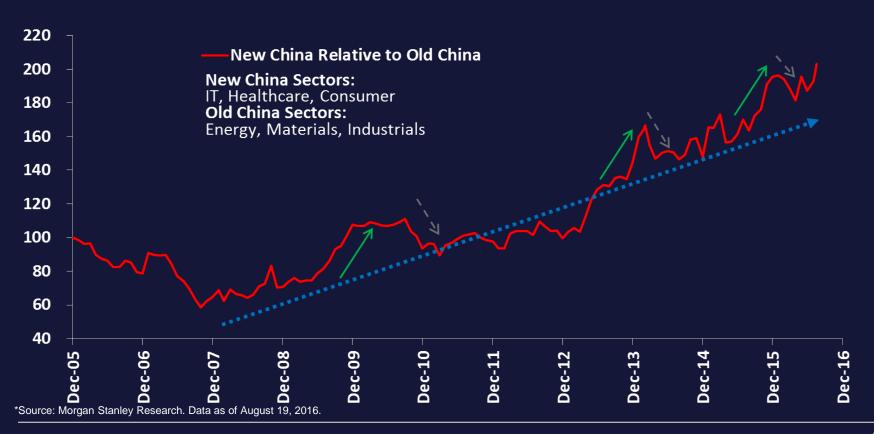


Source: MSCI, IBES, Rimes, Morgan Stanley Research. Note: Data as of Aug 19, 2016.

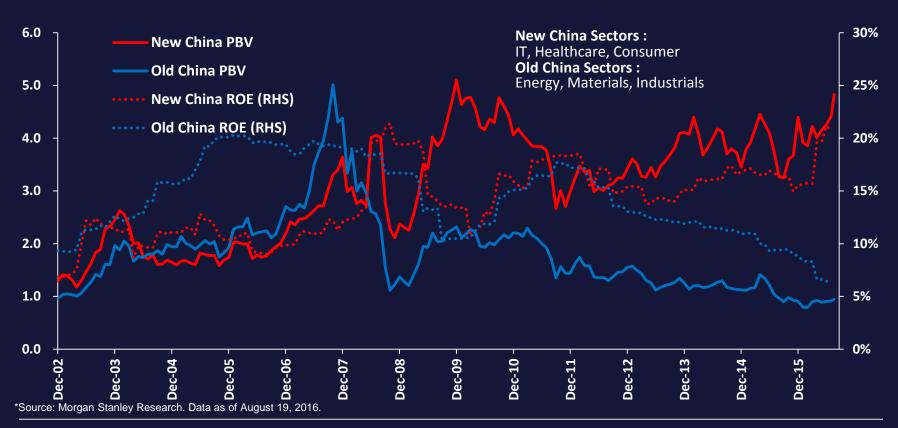
EM / APxJ Country Allocation



MSCI New China continues to outperform Old China



Historical ROE and PBV trends of 'New China' vs. 'Old China'





European Equity Strategy

Graham Secker

Head of European & UK Equity Strategy

Morgan Stanley & Co. International plc+

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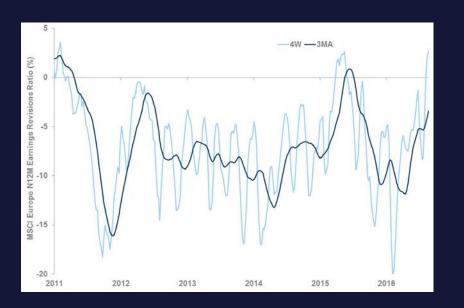
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Hard to see a meaningful upturn in growth/reflation

European earnings revisions at a 5Y high

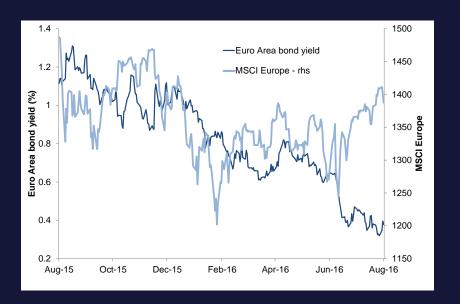


EUR strength to remain a headwind for European equities



Is it really different this time?

The relationship between equities and bond yields has reversed since the end of June

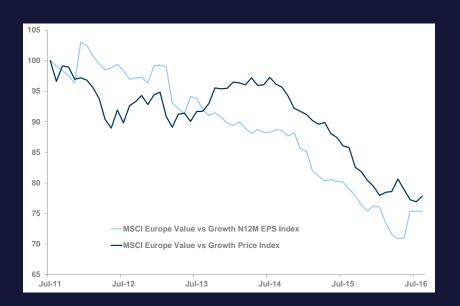


Equity valuations are pro-cyclical in this cycle

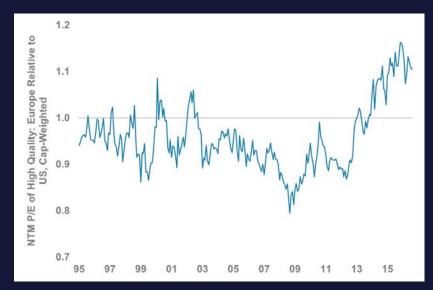


Value or Growth?

Value's underperformance has been driven by poor EPS

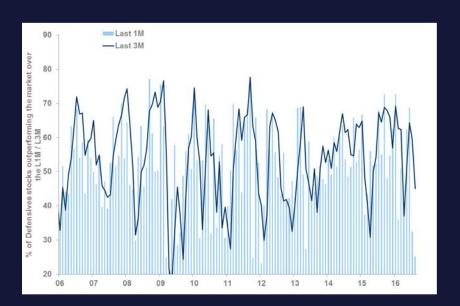


European quality stocks remain expensive relative to US quality stocks

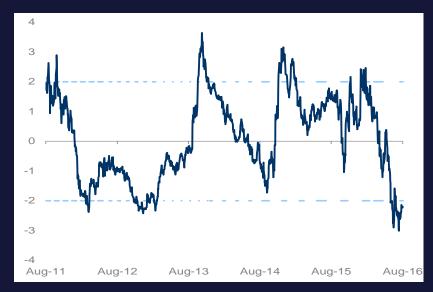


Defensives look oversold

% of Defensive stocks outperforming is lowest since 2012



European Telecoms look particular oversold

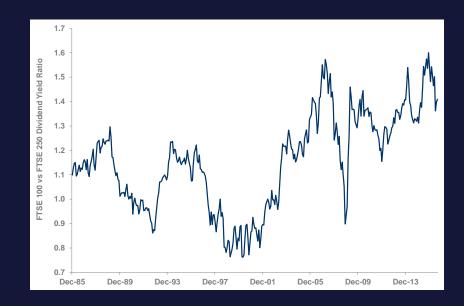


Prefer large-caps in the UK

Superior UK large cap ERR should continue

10 5 FTSE100 N12M ERR (%) Small Cap -10 FTSE250 -15 Jan-16 Feb-16 Jul-16 May-16

FTSE100 still looks cheap vs. Mid250





European Rates Strategy: Low Yields Likely to Persist

Anton Heese

Head of European Interest Rate Strategy

Morgan Stanley & Co. International plc+

September 7, 2016

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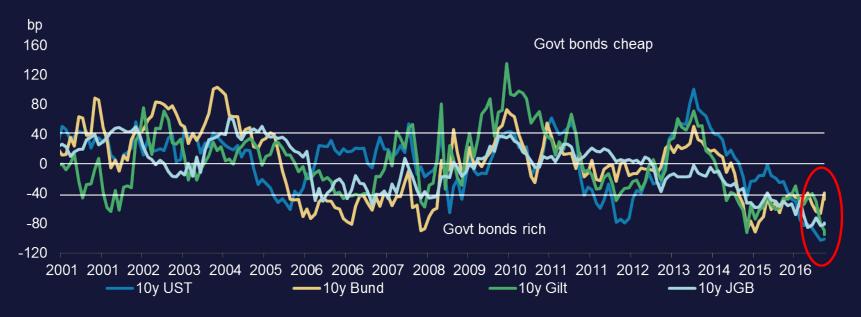
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G4 Government Bond Valuations Are Unusually Rich

Decline in term premium has happened in all markets

Residuals from OLS Fair Value Models*



^{1. *10}y govt bond regressed on 3mth t-bill rate, 3mth-2y slope, prior realised inflation, PMI change & realised rate volatility.

The Obvious Explanation Is Extraordinary Monetary Policy

We expect the net supply of government bonds to be negative in 2017

G4 Government Bond Net Issuance Less QE Purchases



Source: Morgan Stanley Research, national treasuries.

The Terminal Interest Rate Is Also Lower Now

Lower trend growth and inflation expectations have also had an impact

10y Bund Yield & Fair Value Estimate (excl. QE)



When Will the Market Price an End of QE?

We should know by 2H17 if the inflation rebound is just "base effects" or "for real"

Morgan Stanley Eurozone (HICPxT) inflation forecast & Market Pricing



Limited Reward For Owning Peripheral Debt Now

BTP-Bund Carry Differential Back to Pre-08 Levels

10y BTP & Bund 12mth Carry & Roll



Morgan Stanley



US Equity Strategy

Adam S. Parker, Ph.D

Chief US Equity Strategist (Video Conference)

Morgan Stanley & Co. LLC

September 7, 2016

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Macro Backdrop

- Modestly decelerating and below consensus view of GDP
- Ultimately a stronger dollar, though weaker near term
- Lower 10-year yields, moving toward 10% on the US 10-Year
- Lower oil prices through 1H of 2017

Summary: Investors could think this set of inputs would be a bad combination of variables for US equities and risk taking. But we retain a generally positive outlook.

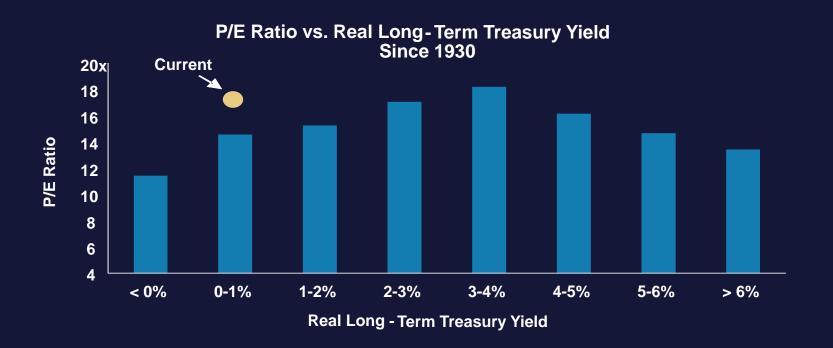
We think the US remains the best house on the block, as it is the **only equity region where our strategist's base** case forecast is for positive earnings growth in 2016.

But, the **base case alone is not driving markets**. Rather, fear about the bear case forming, and the downside to earnings if the bear case does form seems to be more important. Said another way, if we get zero earnings growth but while that is happening we aren't afraid of a big earnings decline, our guess is that the market will go higher.

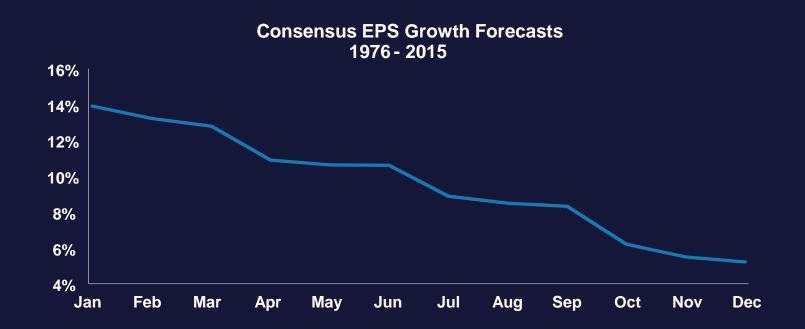
Our Base Case Is 2300, But We See Potential for Markets to Move Toward the Bull Case



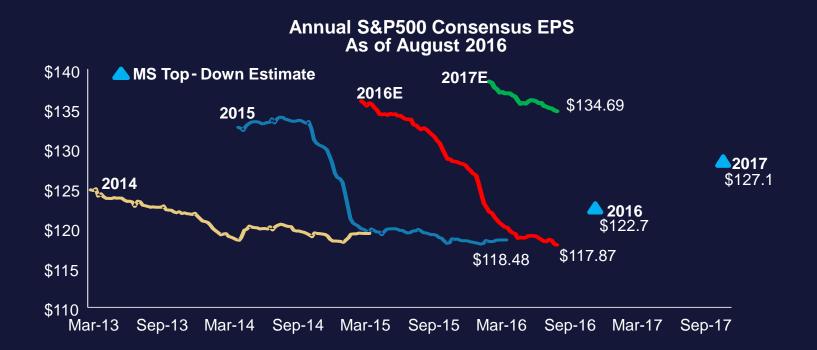
Multiples Are Above Average Levels – But Maybe History Isn't Relevant?



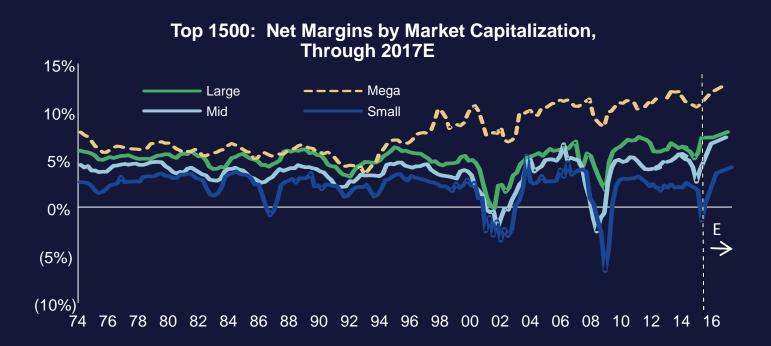
EPS Growth Forecasts Typically Decline Over Time



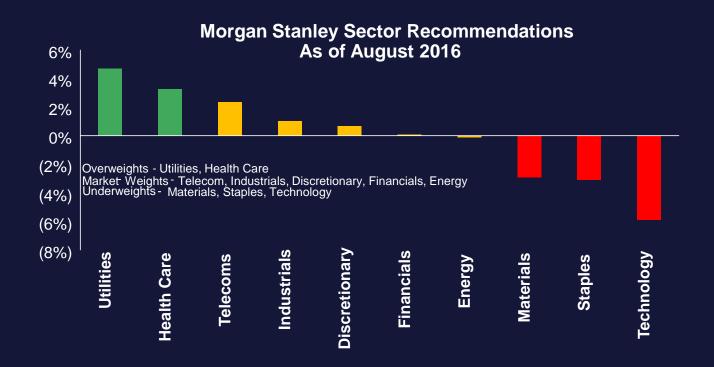
But Atypically, Sell Side Expectations Are Very Low for the Rest of 2016



Mega Cap Profitability Matters



We Are Overweight Utilities and Health Care, Underweight Materials, Staples, and Tech.



Morgan Stanley



Andrew Sheets

Chief Cross Asset Strategist

Morgan Stanley & Co International plc+

September 7, 2016

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EM Real Rates Remain Elevated and Attractive



Source: Morgan Stanley Research

Defensives are Expensive. But there are Exceptions EUR and JPY are both Cheap and Diversifying

	% of Time Cheaper, last 15yrs	Correlation to MSCI ACWI
EUR	15%	-16%
JPY	27%	-40%

"Quality Carry" Does Exist: L+150, with, ~5% Volatility

The Discount for Complexity Is Too High

	Exp Return.	Volatility		
CDX 5y5y	L+145	4%		
EUR CLO AAAs	L+150	5%		
US Leveraged Loans	L+260	6%		

Political Uncertainty: Real, and Necessarily Priced In

Anything Happening in November?

	Implied Vol. (October)	Implied Vol (November)
VIX Futures	17%	18%
US Financials	15%	16%
US 10yr Rates	6.6%	6.8%

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(as of August 31, 2016)

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Coverage Universe		Investment Ranking Clients (IRC)		Other Material Investment Services Clients (MISC)			
Stock Rating Category	Count	% of Total	Count	% of Total IBC	% of Rating Category	Count	% of Total Other MISC
Overweight/Buy	1140	34%	250	39%	22%	564	35%
Equal-weight/Hold	1458	44%	305	47%	21%	727	46%
Not-Rated/Hold	73	2%	7	1%	10%	10	1%
Underweight/Sell	651	20%	86	13%	13%	291	18%
Total	3,322		648			1592	

Data include common stock and ADRs currently assigned ratings. Investment Banking Clients are companies from whom Morgan Stanley received investment banking compensation in the last 12 months.

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